

Rail-Highway Crossing Safety Projects

Rail-Highway crossing safety projects are primarily funded using Federal Highway Administration (FHWA) Surface Transportation Program (STP) Safety funds. These funds are about one-half of the ten percent of STP funds that must be set aside for constructing safety project under Title 23 United States Code (U.S.C.) Section 130. The rail-highway crossing safety projects program is administered/coordinated by the Multimodal Operations Division of the Missouri Department of Transportation (MoDOT).

State Grade Crossing Safety Fund

The Missouri legislature created a State Grade Crossing Safety Account supported by a tax on motor vehicle licensing. This fund, created to upgrade the safety of existing rail-highway crossings is used to provide the 20 percent matching funds for the program. The total amount contributed yearly by this state fund is approximately \$1.0 million. It is administered by the Missouri Department of Economic Development's Motor Carrier and Railroad Safety Division (DED/MCRS).

Rail-Highway Crossing Safety Program

Overall Purpose – The overall purpose of this program is to improve safety at rail-highway grade crossing to both railroads and highway users. Under this program, projects to improve crossing safety generally are funded at 80 percent federal and 20 percent state of the total cost. Project improvements typically done are to install railroad crossing signal devices, circuitry, and surfaces depending on the diagnostic review recommendations. Projects can also provide improvements on adjacent highway approaches to yield better sight distance toward crossings or to install barricades for closures.

Diagnostic Reviews and Procedures – A Joint Diagnostic Team performs yearly reviews on eligible rail-highway crossings. The diagnostic team consists of one MoDOT representative, a member of the DED/MCRS, one or more railroad representatives, and one or more members of a local public works agency, county and/or city. This team evaluates the railroad crossing to determine the best solution to improve safety. Statewide priorities are developed for projects using these funds utilizing a measure called an “Exposure Index” (EI) which involves a number of factors, including the volume of vehicles, the volume of trains, vehicle speed, train speed, and sight distance. A brief explanation of how the Exposure Index is computed is given at the end of this section.

Program General Schedule – A general schedule for programming, development and implementation of rail-highway improvement projects is as follows. This schedule usually involves four phases over a three-year period.

***Rail-Highway Crossing Safety Projects
General Schedule By Phase***

I. Programming (*About seven months duration*)

1. The Missouri Department of Economic Development, Division of Motor Carrier and Railroad Safety (DED/MCRS) and the Missouri Department of Transportation (MoDOT) set criteria and develop a preliminary priority list by March 1.
2. Diagnostic field reviews are to be completed by June 1.
3. MoDOT and DED/MCRS develop project list by June 15.
4. MoDOT submits urban project list of crossing improvements to the Metropolitan Planning Organizations.
5. Rural project list is submitted to the MoDOT Office of Transportation Program Management for listing on the State Transportation Improvement Program (STIP).
6. MoDOT obligates federal funds with the Federal Highway Administration (FHWA) when funds are available (usually October 1).

II. Preliminary Engineering and Agreement Processing (*About seven month duration*)

1. MoDOT sends an agreement for installation of warning devices to the railroad with a copy of the diagnostic review form, and MoDOT authorizes the railroad to perform engineering (15 days after obligation).
2. Railroad returns the agreement with the plan and cost estimate. Copies are sent to DED/MCRS with the plan and cost estimate (120 calendar days from preliminary engineering date).

3. MoDOT and DED/MCRS review the plan and cost estimate.
4. MoDOT sends the agreement to the local agency (if crossing is on a state route, skip to Step 6).
5. The local agency executes the agreement and returns to MoDOT (30 days).
6. MoDOT executes the agreement and distributes fully executed agreements.
7. DED/MCRS staff files an application with DED/MCRS Administrative Law Judge (ALJ) (15 days).
8. All parties respond to the application and waive oral hearing if project is acceptable.
9. DED/MCRS ALJ issues an order to install the devices (30 days)

III. Construction and Inspection (*About 12 months duration*)

1. MoDOT authorizes the railroad to order material and to proceed with construction (5 days).
2. Railroad notifies MoDOT district area engineer five days prior to beginning field work.
3. Railroad installs warning devices. MoDOT inspects work during installation.
4. DED/MCRS performs final inspections within 90 days after project completion.

IV. Billing (*About 10 months duration*)

1. Railroad transmits bill to MoDOT and DED/MCRS within 8 months after project completion.
2. DED/MCRS audits and issues payment from the State Grade Crossing Safety Account (60 days).
3. MoDOT issues payment within 60 days after receiving bill and audits at a later date.

V. Summary: Total Project Duration

Average typical project total elapsed time from Programming through Billing final payment is three years.

General Project Funding Policy and Priority – Usually projects are funded with 80 percent federal and 20 percent state funds.

Rail-Highway Crossing Safety Projects General Funding Policy And Priority For Improvements

1. Passive To Active Warning Devices (*Exposure Index (EI) ≥ 1000*)

80% Federal Highway Administration (FHWA) Surface Transportation Program (STP) Safety Funds

20% Missouri Department of Economic Development, Division of Motor Carrier and Railroad Safety (DED/MCRS) Grade Crossing Safety Account (GCSA)

2. Upgrades Due To Closures

FUNDING TO BE NEGOTIATED

- If none of the remaining crossings meets the funding criteria then a maximum of 50% to be funded with state and federal funds.

3. Device Upgrades (*EI > 5000*) And 5 Years Old

FUNDING TO BE NEGOTIATED

4. Passive Corridor Improvements

80% Material FHWA STP Funds

20% Material GCSA Funds

5. Upgrades Due To High Accident Studies

(Study performed on crossings with 3 accidents in 5 years)

FUNDING TO BE NEGOTIATED

6. Circuitry Upgrades ($EI > 5000$) And 10 Years Old
FUNDING TO BE NEGOTIATED

7. Signal Enhancement Program
FUNDING TO BE NEGOTIATED

8. Surface Improvements
FUNDING TO BE NEGOTIATED

Note: Policy and Priority Items Last Revised January 6, 2000

Rail-Highway Crossing Improvement Project Lists

The following four lists contain the rail-highway crossing improvement projects selected for funding under this program for both the present year and previous years. The rail-highway crossing locations are sorted by the MoDOT Districts. The lists also provide an indication of project status. What each list represents is defined as follows.

List 1 – Projects with executed agreements and an order for the improvements has been issued. The order gives the railroad companies one year for the installation to be completed.

List 2 – Projects funded in the Fiscal Year 2000 STIP, or a previous year, but the final design is not complete. These projects will be ordered within the next year.

List 3 – Projects still in the Preliminary Design Phase.

List 4 – Additional projects to be funded in Fiscal Year 2001.

Estimated federal funding for Fiscal Year 2001 and 2002 is tentatively set at \$3,980,000 each.

Railroad Company Glossary

BNSF – The Burlington Northern and Santa Fe Railway Company

GWWR – Gateway Western Railway Company (*Part of Kansas City Southern Railway Company*)

KCS – Kansas City Southern Railway Company

NS – Norfolk Southern Railway Company

UP – Union Pacific Railroad Company (*Includes Missouri Pacific and Southern Pacific*)

Improvement Type Definitions

Circuitry Upgrade (C.U.) – Upgrade existing circuitry to redundant constant warning time circuitry.

Close – Install barricades and necessary work to close/remove existing crossing.

Device Upgrade (D.U.) – Upgrade existing circuitry to redundant constant warning time circuitry and add gates at the crossing.

Grade Separation – Construct a grade separation structure to eliminate conflicts at crossings;

New Surface – Install new rubberized or concrete surface at crossings to reduce roughness.

Passive to Active (P to A) – Install active warning devices which includes flashing light signals and gates with redundant constant warning time circuitry at crossings which currently have only passive warning devices (*i.e. crossbucks*).

Exposure Index Computation Procedure

The **Exposure Index (EI)** is a two-part equation. The first is a relationship of train-vehicular characteristics called a “Traffic Index Factor”. The second is a relationship of “Required-to-Actual” highway approach sight distances called a “Sight Distance Factor”.

Traffic Index Factor

The **Traffic Index (TI)** is the major component of this Exposure Index. It is determined as follows:

$$TI = (T) (Ts) (V) (Vs) (10^{-4})$$

Where:

- T = number of daily train movements
- Ts = maximum allowable train speed
- V = average daily traffic count
- Vs = normal vehicular operating speed *

Sight Distance Factor

The **Required Sight Distances (RSD)** used are found in Table 20 “*Required Design Sight Distances---*” as extracted from the Highway Research Board *Report 50*.

To calculate the **Sight Distance Obstructions (SDO)**, ** subtract the **Actual Sight Distance** from the **Required Sight Distance**. **Percent of Obstruction (P)** is determined by dividing the **Sight Distance Obstruction** by the **Required Sight Distance**.

$$PO = SDO / RSD$$

The **Percent of Obstruction (P)** is multiplied by the **Traffic Index Factor (TI)** to obtain the **Sight Distance Factor**.

$$PO (TI)$$

Exposure Index

Exposure Index (EI) is computed by totaling the **Traffic Index Factor (TI)** and the **Sight Distance Factor**.

$$EI = TI + PO (TI)$$

* *Not to exceed posted maximum allowable speed.*

** *An obstruction is included in the Sight Distance Obstruction only if it occurs within the area of the Required Sight Distance.*

LIST 1: CROSSINGS IN THE CONSTRUCTION PHASE

Implementation Ordered

DISTRICT 1 (NONE)

DISTRICT 2:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Macon	BNSF	005 094V	LaPlata	CR 515/Iceberg	P to A	\$100,000
Randolph	NS	480 734Y	Moberly	Ault St.	P to A	\$100,000

DISTRICT 3:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Knox	BNSF	005 063W	Baring	County Rd. 112	P to A	\$100,000
Lincoln	BNSF	072 869E	Winfield	Route N	D.U.	\$100,000
Marion	NS	480 629X	Rensselaer	County Rd. 431	P to A	\$100,000
Pike	BNSF	078 439P	Louisiana	S. Carolina St.	P to A	\$100,000
Pike	BNSF	078 440J	Louisiana	Georgia St.	D.U.	\$100,000

DISTRICT 4: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Jackson	GWWR	293 584D	Blue Springs	10 th St.	C.U.	\$100,000
Jackson	GWWR	293 585K	Blue Springs	Main St.	D.U.	\$100,000
Jackson	GWWR	293 587Y	Blue Springs	Woods Chapel Rd.	D.U.	\$100,000
Jackson	UP	422 984E	Kansas City	Holmes Rd.	C.U.	\$100,000

DISTRICT 5 (NONE)

LIST 1: CROSSINGS IN THE CONSTRUCTION PHASE (Cont.) Implementation Ordered

DISTRICT 6: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Franklin	BNSF	664 343R	Pacific	Jefferson St.	P to A	\$130,000
Jefferson	UP	446 451M	Desoto	Knorpp Rd.	P to A	\$100,000
Jefferson	BNSF	663 848U	Arnold	Arnold-Tenbrook	D.U.	\$100,000
St. Charles	BNSF	068 792M	Seeburger	Blasé Station Rd.	C.U.	\$100,000
St. Charles	NS	483 539J	Foristell	Seeger Ln.	P to A	\$125,000
St. Louis City	UP	424 882T	St. Louis	Germania St.	D.U.	\$100,000

DISTRICT 7:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Barton	BNSF	669 998U	Lamar	Gulf St.	D.U.	\$100,000
Jasper	KCS	330 028B	Waco	Kafir Rd.	P to A	\$100,000
Jasper	KCS	330 029H	Waco	N. Roney St.	Close	\$ 50,000
Jasper	KCS	330 039N	Joplin	Elk Rd.	D.U.	\$100,000

DISTRICT 8: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Greene	BNSF	664 099W	Springfield	Packer Rd.	D.U.	\$100,000
Greene	BNSF	664 100N	Springfield	Packer Rd.	D.U.	\$100,000
Greene	BNSF	664 103J	Springfield	Pythian St.	D.U.	\$100,000
Greene	BNSF	664 105X	Springfield	Catalpa	D.U.	\$100,000
Greene	BNSF	673 252J	Strafford	Farm Rd. 249	P to A	\$100,000
Greene	BNSF	673 275R	Republic	Farm Rd. 170	P to A	\$100,000
Greene	BNSF	673 283H	Republic	Farm Rd. 194	P to A	\$100,000
Webster	BNSF	667 628M	Fordland	County Rd. 449	P to A	\$100,000

LIST 1: CROSSINGS IN THE CONSTRUCTION PHASE (Cont.)
Implementation Ordered

DISTRICT 9:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Howell	BNSF	667 842S	Pomona	County Rd. 1540	P to A	\$100,000

DISTRICT 10:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Dunklin	UP	787 950U	Malden	Broadwater St.	C.U.	\$100,000
Pemiscot	BNSF	665 541P	Hayti	Cleveland St.	P to A	\$100,000
Perry	BNSF	663 936E	McBride	Main	P to A	\$100,000

LIST 2: CROSSINGS IN THE DESIGN PHASE

Anticipated Implementation in FY 2002

DISTRICT 1 (NONE)

DISTRICT 2 (NONE)

DISTRICT 3:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Montgomery	NS	483 597E	Montgomery City	Mitchell Rd.	Close – build rdwy.	\$100,000
Montgomery	NS	483 598L	Montgomery City	Walker St.	D.U. – impr. Rdwy.	\$200,000
Montgomery	NS	483 599T	Montgomery City	Spinsby St.	C.U.	\$100,000
Montgomery	NS	483 602Y	Montgomery City	Third St.	Close	\$0
Montgomery	NS	483 603F	Montgomery City	Seventh St.	D.U.	\$100,000
Montgomery	NS	483 604M	Montgomery City	Route B	D.U.	\$100,000
Montgomery	NS	916 969U	Montgomery City	Niedergerke Dr.	P to A	\$100,000

DISTRICT 4: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Cass	UP	441 983Y	Pleasant Hill	175 th St.	P to A	\$100,000
Clay	UP	605 516T	Moseby	MO Route 92	D.U.	\$130,000
Platte	BNSF	095 197R	Armour	Stanton Rd.	P to A	\$130,000
Ray	BNSF	005 352X	Camden	Missouri St.	D.U.	\$100,000
Ray	BNSF	005 359V	Orrick	Sibley Rd.	P to A	\$100,000
Ray	NS	483 848W	Camden	Missouri St.	P to A	\$100,000

LIST 2: CROSSINGS IN THE DESIGN PHASE (Cont.)
Anticipated Implementation in FY 2002

DISTRICT 5

County	RR	Crossings	City	Roadway	Improvement	Estimate
Pettis	UP	442 094Y	Dresden	Buckley Rd.	P to A	\$130,000
Pettis	UP	442 096M	Dresden	Hitaffer Rd.	Close	\$0
Pettis	UP	442 148C	Sedalia	Sellers	Close	\$0
Pettis	UP	442 149J	Sedalia	Rissler Rd.	Rdwy. Impr.	\$ 60,000
Pettis	UP	442 152S	Smithton	Lamms Ln.	P to A	\$130,000
Pettis	UP	442 153Y	Smithton	Pony Path Rd.	Close	\$0
Pettis	UP	442 156U	Smithton	Selkin Rd.	Close	\$0

DISTRICT 6: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
St. Louis City	MRS	854 663R	St. Louis	9 th N. of Dorcas	C.U.	\$100,000
St. Louis City	MRS	854 664X	St. Louis	Dorcas Busch Pl.	C.U.	\$100,000
St. Louis City	MRS	854 665E	St. Louis	Dorcas @ Broadway	C.U.	\$115,000

DISTRICT 7:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Lawrence	BNSF	668 319D	Pierce City	County Rd. 1050	P to A	\$100,000

DISTRICT 8 (NONE)

LIST 2: CROSSINGS IN THE DESIGN PHASE (Cont.)

Anticipated Implementation in FY 2002

DISTRICT 9:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Howell	BNSF	667 847B	Pomona	County Rd. 5120	P to A	\$130,000
Washington	UP	446 429A	Mineral Point	Rainbow Springs	Close – build rdwy.	\$100,000

DISTRICT 10:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Butler	UP	446 260C	Poplar Bluff	B St.	SEP	\$250,000
Butler	UP	446 262R	Poplar Bluff	C. St.	Close	\$ 15,000
Dunklin	UP	787 951B	Malden	Francis St.	C.U.	\$100,000
New Madrid	BNSF	665 588K	Lilbourn	Route D	D.U.	\$130,000
New Madrid	BNSF	665 589S	Lilbourn	Lewis St.	P to A	\$130,000
New Madrid	BNSF	665 590L	Lilbourn	Dawson St.	Close	\$130,000
New Madrid	BNSF	665 591T	Lilbourn	Phillips Ave.	P to A	\$100,000
New Madrid	BNSF	665 592A	Lilbourn	Route U	D.U.	\$130,000
Scott	BNSF	665 643H	Oran	Rt. W/Radcliff	D.U.	\$100,000
Scott	BNSF	663 655C	Chaffee	Gray St.	P to A	\$130,000
Scott	BNSF	663 965P	Chaffee	County Rd. 220	P to A	\$130,000

LIST 3: CROSSINGS IN THE PRELIMINARY DESIGN PHASE **Anticipated Implementation in FY 2003**

DISTRICT 1 (NONE)

DISTRICT 2:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Randolph	NS	480 731D	Moberly	Gratz-Brown St.	P to A	\$100,000
Randolph	NS	483 678E	Clark	Route P/Main St.	D.U.	\$130,000
Randolph	NS	483 687D	Moberly	Prison Rd.	D.U.	\$130,000
Randolph	NS	483 689S	Moberly	Urbandale Rd.	C.U.	\$130,000
Randolph	NS	483 691T	Moberly	E. McKinsey St.	C.U.	\$130,000
Randolph	NS	483 694N	Moberly	W. Carpenter St.	D.U.	\$130,000
Randolph	NS	483 695V	Moberly	Wightman	D.U.	\$130,0

DISTRICT 3:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Audrain	GWWR	293 344W	Mexico	Morris St.	D.U.	\$130,000
Audrain	NS	483 626M	Benton City	County Rd. 725	P to A	\$130,000
Audrain	NS	483 627U	Benton City	County Rd. 724	Close	\$0
Audrain	NS	483 630C	Benton City	Route A	D.U.	\$130,000
Audrain	NS	483 643D	Mexico	Morris St.	D.U.	\$130,000
Audrain	NS	483 645S	Mexico	County Rd. 929	P to A	\$130,000
Audrain	NS	483 646Y	Mexico	County Rd. 935	P to A	\$130,000
Audrain	NS	483 648M	Thompson	Main St.	D.U.	\$130,000
Audrain	NS	483 649U	Thompson	County Rd. 951	P to A	\$130,000
Audrain	NS	483 650N	Thompson	County Rd. 957	P to A	\$130,000
Audrain	NS	483 652C	Thompson	County Rd. 963	P to A	\$130,000

LIST 3: CROSSINGS IN THE PRELIMINARY DESIGN PHASE (Cont.) **Anticipated Implementation in FY 2003**

DISTRICT 3 (Cont.):

County	RR	Crossings	City	Roadway	Improvement	Estimate
Audrain	NS	483 654R	Thompson	County Rd. 973	P to A	\$130,000
Audrain	NS	483 657L	Centralia	County Rd. 989	P to A	\$130,000
Marion	BNSF	063 537L	Hannibal	Route JJ	D.U.	\$130,000

DISTRICT 4: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Jackson	UP	411 877J	Kansas City	Genessee St.	D.U.	\$130,000
Jackson	UP	441 942U	Independence	South Ave.	C.U.	\$100,000
Jackson	BNSF	663 541H	Kansas City	Genessee St.	D.U.	\$130,000
Johnson	UP	442 068J	Montserrat	County Rd. 801	P to A	\$100,000
Johnson	UP	442 085A	Knob Noster	Route FF	C.U.	\$130,000
Lafayette	GWWR	293 554L	Odessa	MO Rt. 131/Second	D.U. – rdwy. Impr.	\$200,000
Ray	BNSF	005 345M	Henrietta	County Rd. 319	P to A	\$130,000
Ray	IMRL	375 486R	Lawson	Garner St.	P to A	\$100,000

DISTRICT 5 (NONE)

DISTRICT 6: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Franklin	BNSF	664 376D	St. Clair	W. Gravois Ave.	P to A	\$100,000

LIST 3: CROSSINGS IN THE PRELIMINARY DESIGN PHASE (Cont.)

Anticipated Implementation in FY 2003

DISTRICT 7:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Barry	BNSF	668 316H	Monett	Eisenhower St.	SEP	\$200,000
Barry	BNSF	673 367D	Monett	Central Ave.	Close	\$0
Bates	MNA	442 049H	Adrian	1 st St.	P to A	\$130,000
Lawrence	BNSF	673 309H	Aurora	County Rd. 1210	P to A	\$130,000
Newton	BNSF	668 369G	Neosho	Washington St.	Close – build rdwy.	\$100,000
Newton	BNSF	668 370B	Neosho	Baxter St.	D.U.	\$100,000

DISTRICT 8: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Greene	BNSF	664 262R	Springfield	U.S. 60/U.S. 65	D.U.	\$100,000
Webster	BNSF	667 650A	Diggins	Route NN	D.U.	\$130,000
Webster	BNSF	667 653V	Diggins	Short Rd.	P to A	\$130,000

DISTRICT 9:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Texas	BNSF	667 722B	Cabool	CR 5930/Cannaday	Close	\$0
Texas	BNSF	667 726D	Cabool	Cedar St.	Close	\$0
Texas	BNSF	667 862D	Cabool	Walnut St.	Close-build rdwy.	\$200,000
Texas	BNSF	667 864S	Cabool	Airport Rd.	Close	\$0

LIST 3: CROSSINGS IN THE PRELIMINARY DESIGN PHASE (Cont.)
Anticipated Implementation in FY 2003

DISTRICT 10:

County	RR	Crossings	City	Roadway	Improvement	Estimate
St. Francois	UP	446 412W	Iron Mountain	Bellview St.	P to A	\$130,000
Scott	BNSF	665 642B	Oran	Greer St.	P to A	\$100,000
Stoddard	UP	446 328N	Dexter	Route ZZ	D.U.	\$130,000

LIST 4: ADDITIONAL PROJECTS TO BE FUNDED IN FISCAL YEAR 2001 **Anticipated Implementation in FY 2004**

DISTRICT 1:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Caldwell	KCS	329 818K	Belton	183 rd St.	P to A	\$130,000

DISTRICT 2:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Carroll	BNSF	005 302U	Carrollton	County Rd. 708	P to A	\$130,000
Carroll	BNSF	005 311T	Carrollton	County Rd. 636	P to A	\$130,000
Chariton	NS	483 753N	Keytesville	County Rd. 425	P to A	\$130,000
Howard	GWR	293 420M	Glasgow	15 th St.	Close	\$0
Howard	GWR	293 421U	Glasgow	8 th St.	Close	\$0
Howard	GWR	?	Glasgow	?	P to A-Build rdwy.	\$200,000
Randolph	GWR	293 362F	Clark	Route P/Main	P to A	\$130,000

DISTRICT 3:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Audrain	GWR	293 346K	Mexico	County Rd. 929	P to A	\$130,000
Audrain	GWR	293 347S	Thompson	County Rd. 935	P to A	\$130,000
Audrain	GWR	293 349F	Thompson	Main St.	D.U.	\$130,000
Audrain	GWR	293 350A	Thompson	County Rd. 951	P to A	\$130,000
Audrain	GWR	293 351G	Thompson	County Rd. 957	P to A	\$130,000
Audrain	GWR	293 353V	Thompson	County Rd. 963	P to A	\$130,000
Audrain	GWR	293 355J	Thompson	County Rd. 973	P to A	\$130,000
Audrain	GWR	293 358E	Centralia	County Rd. 989	P to A	\$130,000
Clark	BNSF	005 014A	Medill	Santa Fe St.	P to A	\$130,000

LIST 4: ADDITIONAL PROJECTS TO BE FUNDED IN FISCAL YEAR 2001 (Cont.)

Anticipated Implementation in FY 2004

DISTRICT 3 (Cont.):

County	RR	Crossings	City	Roadway	Improvement	Estimate
Marion	BNSF	063 528M	Hannibal	County Rd. 253	P to A	\$130,000
Marion	NS	480 616W	Hannibal	Lindell Ave.	Close-Build rdwy.	\$ 85,000

DISTRICT 4: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Clay	IMRL	375 445L	Lawson	174 th St.	P to A	\$130,000
Jackson	KCS	329 705E	Kansas City	Front St.	P to A	\$130,000
Jackson	KCS	329 709G	Kansas City	Front St.	P to A	\$130,000
Jackson	BNSF	663 537T	Kansas City	Mulberry St.	P to A	\$130,000
Jackson	BNSF	663 538A	Kansas City	Mulberry St.	P to A	\$130,000
Ray	BNSF	005 347B	Camden	County Rd. 320	P to A	\$130,000

DISTRICT 5:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Cole	UP	442 661N	Jefferson City	Industrial Dr.	P to A	\$130,000
Pettis	UP	442 086G	Knob Noster	E. Prairie Grove	P to A	\$130,000

DISTRICT 6: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
St. Charles	BNSF	068 768L	Old Monroe	Dalbow St.	P to A	\$130,000
St. Louis	UP	425 018L	Webster Groves	Brentwood St.	P to A	\$130,000
St. Louis City	UP	425 030T	St. Louis	Manchester Ave.	P to A	\$130,000

**LIST 4: ADDITIONAL PROJECTS TO BE FUNDED IN FISCAL YEAR 2001
(Cont.)
Anticipated Implementation in FY 2004**

DISTRICT 7:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Jasper	MNA	434 857M	Joplin	Murphy Blvd.	P to A	\$130,000
Jasper	BNSF	669 557A	Joplin	Murphy Blvd.	P to A	\$130,000
McDonald	KCS	330 186B	Noel	County Rd.	P to A	\$130,000
Newton	KCS	330 132V	Neosho	N. Lark St.	Close	\$0
Newton	KCS	330 133C	Neosho	Sorrel St.	Close	\$0
Newton	KCS	330 134J	Neosho	S. Lark St.	Close	\$0
Newton	KCS	?	Neosho	Reynolds Rd. ?	P to A – Build Rdwy.	\$200,000

DISTRICT 8: (MPO)

County	RR	Crossings	City	Roadway	Improvement	Estimate
Greene	MNA	445 056A	Springfield	Scenic Dr.	P to A	\$130,000
Webster	BNSF	667 628M	Fordland	County Rd.	P to A	\$130,000

DISTRICT 9:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Howell	BNSF	667 844F	Pomona	County Rd. 1820	P to A	\$130,000
Phelps	BNSF	664 598M	Rolla	7 th St.	D.U.	\$130,000
Phelps	BNSF	664 599U	Rolla	6 th St.	D.U.	\$130,000
Phelps	BNSF	664 600L	Rolla	Rolla St.	D.U.	\$130,000
Phelps	BNSF	664 602A	Rolla	Park St.	Close	\$0
Phelps	BNSF	664 604N	Rolla	Walker St.	D.U.	\$130,000

**LIST 4: ADDITIONAL PROJECTS TO BE FUNDED IN FISCAL YEAR 2001
(Cont.)
Anticipated Implementation in FY 2004**

DISTRICT 10:

County	RR	Crossings	City	Roadway	Improvement	Estimate
Stodddard	UP	789 073S	Bell City	County Rd. 340	P to A	\$130,000
Stoddard	UP	789 099U	Dexter	County Rd. 567	P to A	\$130,000
Stoddard	UP	789 114U	Dexter	County Rd. 708	P to A	\$